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PATENT

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Mail Stop Amendment, Commissioner for Patents, P.O. Box 1450, Alexandria, VA 22313-1450 on March 9, 2006

William R. Allen
William R. Allen, Reg. No. 48,389

9 March 2006
Date

Applicants: Toshiharu Furukawa et al.
Serial No.: 10/711,764
Filed: October 4, 2004
Art Unit: 2823
Examiner: Jarrett J. Stark
Confirmation No.: 5763
Title: LOW-K DIELECTRIC MATERIAL BASED UPON CARBON NANOTUBES
Atty Docket No.: IBM-319

Cincinnati, Ohio 45202

March 9, 2006

INFORMATION DISCLOSURE STATEMENT

Mail Stop Amendment
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of candor and good faith imposed by 37 C.F.R. §1.56 and means of complying therewith according to 37 C.F.R. §§1.97 and 1.98, the references listed on the attached Form PTO-1449 are called to the attention of the United States Patent and Trademark Office in connection with the above-identified patent application.

Subject to the Office's waiver of providing copies of U.S. patents and published applications for applications filed after June 30, 2003, only foreign references and articles are provided, since this application was filed on October 4, 2004, and therefore, subsequent to June 30, 2003.

The Examiner is urged to consider all of the cited documents and to make an independent evaluation of the teachings and materiality of each.

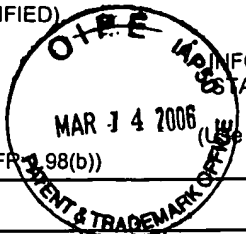
Applicants believe that no fee is due in connection with this communication. However, if this is not the case, the Commissioner is authorized to charge deposit account 23-3000 for any required fees.

Respectfully submitted,

WOOD, HERRON & EVANS, L.L.P.

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SUBSTITUTE FORM PTO-1449 (MODIFIED)		U.S. DEPARTMENT OF COMMERCE PATENT AND TRADEMARK OFFICE		ATTY. DOCKET NO. IBM/319		SERIAL NO. 10/711,764							
				INFORMATION DISCLOSURE STATEMENT BY APPLICANT									
				(Use several sheets if necessary)									
(37 CFR 1.98(b))				FILING DATE October 4, 2004		GROUP 2823							
U.S. PATENT DOCUMENTS													
EXAMINER INITIAL		PATENT NUMBER							ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	A.A	5	7	9	6	5	7	3	8/18/1998	Kotecki et al.	361	321.5	5/29/1997
	A.B	6	2	5	0	9	8	4	6/26/2001	Jin et al.	445	51	1/25/1999
	A.C	6	4	2	3	5	8	3	7/23/2002	Avouris et al.	438	132	1/3/2001
	A.D	6	5	1	5	3	2	5	2/4/2003	Farnworth et al.	257	296	3/6/2002
	A.E	6	8	5	8	8	9	1	2/22/2005	Farnworth et al.	257	296	12/9/2002
	A.F	6	8	9	1	2	2	7	5/10/2005	Appenzeller et al.	257	346	
	A.G												
	A.H												
	A.I												
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FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS													
		DOCUMENT NUMBER		PUBLICATION DATE		COUNTRY OR PATENT OFFICE		CLASS		SUBCLASS		TRANSLATION (YES/NO)	
	A.L	WO 2004/O40668		3/14/2004		PCT		H01L 51/20				Abstract Only	
	A.M	WO 2004/O40616		3/13/2004		PCT		H01L				Abstract Only	
	A.N	WO 2004/105140		12/2/2004		PCT		H01L 29/786				Abstract Only	
	A.O	EP 1420414		April 6, 2005		EP		G11C 13/O2		H01L 51/30		N/A	
	A.P	EP 1 361 608		11/12/2003		EP		H01L 21/768		H01L 23/532		N/A	
	A.Q												
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	A.R	Z.F.Ren, "Large Arrays of Well-Aligned Carbon Nanotubes", <u>Proceedings of 13th International Winter School on Electronic Properties of Novel Materials</u> , Page 263-267, Feb. 27 - Mar. 6, 1999, Kirchberg / Tirol, Austria											
	A.S	Choi et al., <u>United States Published Application No. 2002/O001905 A1</u> , Publication Date: 1/3/2002											
	A.T	Furukawa et al., <u>United States Patent Application Publication No. US 2005/O179029</u> , Publication Date: August 18, 2005											
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STATEMENT BY APPLICANTAPPLICANT
Toshiharu Furukawa et al.

(Use several sheets if necessary)

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(37 CFR 1.98(b))

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	B.R	<u>Y.Zhao, et al, "Film growth of pillars of multi-walled carbon nanotubes", J.PHys.: Condens. Matter 15 (2003) L565-L569</u>
	B.S	<u>Zhang, et al, "Electric-field-directed growth of aligned single-walled carbon nanotubes", Applied Physics Letters, Volume 79, Number 19, 5 November 2001</u>
	B.T	<u>http://neep.nasa.gov/index_nasa.cfm/769/#synthesis, "Synthesis of CNT's"</u>

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	C.R	<u>C-H. Kiang, "Growth of Larger-Diameter Single-Walled Carbon Nanotubes," J.Phys. Chem. A 2000, 104, 2454-2456</u>					
	C.S	<u>E.Ploenjes, et al, "Single-Walled Carbon Nanotube Synthesis in CO Laser Pumped Monoxide Plasma". Oct 10, 2001</u>					
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	D.R	<u>M.Jung, et al, "Growth of carbon nanotubes by chemical vapor deposition," 2001 Elsevier Science B.V.</u>					
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	D.T	<u>H.Cui, et al, "Growth behavior of carbon nanotubes on multilayered metal catalyst film on chemical vapor deposition." Chemical Physics Letters 374 (2003) 222-228</u>					
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	E.R	J.Li, et al, "Highly-ordered carbon nanotube arrays for electronics applications". Applied Physics Letters, Vol 75, Number 3, 19 July 1999
	E.S	Furukawa et al., United States Patent Application No. US2005/O130341, Publication Date: June 16, 2005
	E.T	Roesner et al., United States Published Application No. 2003/O132461 A1, Publication Date: 7/17/2003

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	F.R	Phillip G. Collins, et al., "Engineering Carbon Nanotubes and Nanotube Circuits Using Electrical Breakdown," <u>Science</u> , Vol. 292, pp.706-709, 27 April 2001					
	F.S	V. Derycke, et al., "Carbon Nanotube Inter- and Intra molecular Logic Gates," <u>Nano Letters</u> , xxxx Vol.0, No 0 A-D (Received August 16, 2001)					
	F.T	Phillip G. Collins, et al., "Nanotubes for Electronics," <u>Scientific American</u> , pp. 62-69, December 2000					
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	G.R	S.J. Wind et al., S.J. Wind, et al., "Vertical Scaling of Carbon Nanotube Field-Effect Transistors Using Top Gate Electrodes," <u>Applied Physics Letters</u> , Vol. 80, Number 20, 20 May 2002, pp. 3817-3819					
	G.S	Z.F.Ren, "Growth, Characterization, and Potential Applications of Periodic Carbon Nanotube Arrays", Dept of Physics, Boston College... Updated, 2001					
	G.T	Jun Li, et al, "Bottom-up approach for carbon nanotube interconnects", NASA Ames Research Center, Moffett Field, CA. Rec'd 5. December 2002, accepted 31 January 2003					
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	H.R	<u>Anyuan Cao, et al, "Grapevine-like growth of single walled carbon nanotubes among vertically aligned multiwalled nanotube Arrays", Applied Physics Letters, Volume 79, Number 9, 27 August 2001</u>					
	H.S	<u>Battelle No 12132, "Carbon Nanotube Arrays: Synthesis of Dense Arrays of Well-Aligned Carbon Nanotubes Completely Filled with Titanium Carbide on Titanium Substrates"</u>					
	H.T	<u>Aileen Chang, et al, "Integration of Nanotubes into Devices", National Nanofabrication Users Network, page 58, Stanford Nanofabrication Facility</u>					
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	J.S	<u>Won Bong Choi, et al, "Ultrahigh density nanotransistors by using selelctively gr own vertical carbon nanotubes", Applied Physics Letters, Volume 79, Number 22, 26 Novenmber 2001</u>					
	J.T	<u>Bo Zheng, et al, "Efficient CVD Growth of Single-Walled Carbon Nanotubes on Surfaces Using Carbon Monoxide Precusor", Nano Letters, xxx Vol.0, No 0 A-D. American Chemical Society revised June 26, 2002</u>					
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	K.R	<u>Gorman, "Nanoscale Networks: Superlong nanotubes can form a grid". Science News Online, May 3, 2003; Vol 163, No 18</u>					
	K.S	<u>"Tiny nanotubes set new record", 7 August 2003. Nanotechweb.org</u>					
	K.T	<u>"IBM Scientists Develop Carbon Nanotube Transistor Technology." IBM.com News - news report concerning work published in Science, Vol. 292, Issue 5517, April 27, 2001 entitled "Engineering Carbon Nanotubes and Nanotube Circuits Using Electrical Breakdown,"</u>					
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use several sheets if necessary) (37 CFR 1.98(b))				APPLICANT Toshiharu Furukawa et al.			
				FILING DATE October 4, 2004		GROUP 2823	
U.S. PATENT DOCUMENTS							
EXAMINER INITIAL		PATENT NUMBER	ISSUE DATE	PATENTEE	CLASS	SUBCLASS	FILING DATE IF APPROPRIATE
	M.A						
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FOREIGN PATENTS OR PUBLISHED FOREIGN PATENT APPLICATIONS							
		DOCUMENT NUMBER	PUBLICATION DATE	COUNTRY OR PATENT OFFICE	CLASS	SUBCLASS	TRANSLATION (YES/NO)
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